

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A substrate transfer system for use in fabricating a liquid crystal display (LCD) device, comprising:
 - a cassette having a bar code;
 - a cassette ~~stoker~~stocker to store the cassette;
 - an auto guided vehicle having a bar code reader, the auto guided vehicle being able to transfer the cassette to a process stage within the substrate transfer system;
 - a moving path unit to determine a moving path of the auto guided vehicle, wherein the moving path unit includes a position detecting sensor to detect a position of the auto guided vehicle;
 - a plurality of process stages at which processes are conducted on a substrate during fabrication of the LCD device, wherein the position detecting sensor is installed in front of at least one of the plurality of process stages; and
 - a host to control the cassette ~~stoker~~stocker, the auto guided vehicle, and the process stages.
2. (Currently Amended) The system according to claim 1, wherein the cassette ~~stoker~~stocker and the auto guided vehicle include a robot arm to load and unload the cassette.
3. (Original) The system according to claim 2, wherein the robot arm has a bar code reader.

4. (Original) The system according to claim 1, wherein the process stages respectively include a shelf to load and unload the substrate cassette and a sensor to detect a processed cassette.
5. (Cancelled).
6. (Original) The system according to claim 1, wherein the moving path unit includes a rail.
7. (Withdrawn) A method of manufacturing a liquid crystal display (LCD) device using the substrate transfer system according to claim 1, comprising the steps of:
 - performing a plurality of processes respectively on a color filter substrate and a thin film transistor substrate, the color filter substrate and the thin film transistor being transferred using the substrate transfer system; and
 - attaching the color filter substrate and the thin film transistor together with liquid crystal material being disposed therebetween.
8. (Withdrawn) A substrate transfer system for use in fabricating a liquid crystal display (LCD) device, comprising:
 - a cassette having a bar code;
 - a cassette stoker to store the cassette, the cassette stoker having a bar code reader;
 - an auto guided vehicle being able to transfer the cassette to a process stage within the substrate transfer system;
 - a rail disposed along a moving path of the auto guided vehicle;
 - a plurality of process stages at which processes are conducted on a substrate during fabrication of the LCD device; and

a host to control the cassette stoker, the auto guided vehicle, and the process stages.

9. (Withdrawn) The system according to claim 8, wherein the cassette stoker includes a robot arm having a bar code reader.

10. (Withdrawn) A method of manufacturing a liquid crystal display (LCD) device using the substrate transfer system according to claim 8, comprising the steps of:

performing a plurality of processes respectively on a color filter substrate and a thin film transistor substrate, the color filter substrate and the thin film transistor being transferred using the substrate transfer system; and

attaching the color filter substrate and the thin film transistor together with liquid crystal material being disposed therebetween.

11. (Withdrawn) A method for transferring a substrate during fabrication of a liquid crystal display (LCD) device, comprising the steps of:

unloading a cassette having a bar code from a cassette stoker to an auto guided vehicle having a bar code reader;

reading the bar code attached to the cassette using the bar code reader;

analyzing information from the bar code reader;

directing the auto guided vehicle to a stage where a process is to be performed;

loading the cassette on the stage;

detecting a cassette on which the process has been completed and transmitting the information to a host;

directing the auto guided vehicle to the stage where the processed cassette is disposed and loading the processed cassette into the auto guided vehicle; and
transferring the cassette to the cassette stoker.

12. (Withdrawn) The method according to claim 11, further comprising a step of reading the bar code attached to the cassette using the bar code reader before loading the cassette on the stage.

13. (Withdrawn) A substrate transfer system of a liquid crystal display (LCD) device, comprising the steps of:

reading a bar code attached to a cassette using a bar code reader disposed in a cassette stoker;

loading a cassette from the cassette stoker having the bar code reader to an auto guided vehicle;

directing the auto guided vehicle to a stage where a process is to be performed;

unloading the cassette on the stage;

detecting a cassette on which the process has been completed and transmitting the information to a host;

directing the auto guided vehicle to the stage where the processed cassette is disposed and loading the cassette into the auto guided vehicle; and

transferring the cassette to the cassette stoker.